

DETAILED ACTION

1. This communication is in response to the amendment filed on 05/19/2009.

After thorough search and examination of the present application and in light of the prior art made of record, claims 1, 4-8, 10 (renumbered as 1-7) are allowed.

Claims 2, 3 and 9 have been cancelled.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney, Chadwick Jackson, registration No. 46,495 on September 11, 2009.

Please amend the claims, which were filed on 05/19/2009 with new versions as follows:

1. (Currently amended) A method for change data capture, comprising the steps of:

executing a database statement to copy a recovery log that contains change data for all transactions performed from a source object in a first system to a database object in a second system;

storing the recovery log that contains the change data;

grouping a plurality of change tables in the database object of the second system into at least two groups of change tables;

obtaining at least some of the change data from the recovery log based in part on a column in the recovery log that holds data representing when a transaction has been committed; and

inserting the at least some change data into one of the at least two groups of change tables in a single transaction, where each change table in the one of the at least two groups of change tables includes a column corresponding to the column in the recovery log; and

renaming a column heading for a source column of the source object and providing the renamed column heading for the source column as a column heading in a change column of the database object.

4. (Previously presented) A method according to claim 1, further comprising: generating the database statement to store the change data in the database object.

5. (Previously presented) A method according to claim 1, further comprising the step of: shipping change data from the recovery log of an on-line transaction processing (OLTP) system to a staging system.

6. (Currently Amended) A computer-readable storage medium storing instructions for change data capture, said instructions arranged, when executed, to cause one or more processors to perform the steps of:

executing a database statement to copy a recovery log that contains change data for all transactions performed from a source object in a first system to a object in a second system;

storing the recovery log that contains the change data;

grouping a plurality of change tables in a database of the second system into at least two groups of change tables;

obtaining at least some of the change data from the recovery log based in part on a column in the recovery log that holds data representing when a transaction has been committed; and

inserting the at least some change data into one of the at least two groups of change tables a single transaction, where each change table in the one of the at least two groups of change tables includes a column corresponding to the column in the recovery log, and

renaming a column heading for a source column of the source object and providing the renamed column heading for the source column as a column heading in a change column of the database object.

7. (Currently Amended) A method of change data capture, comprising the steps of:

shipping change data for at least one transaction that has been performed on an on-line transaction processing (OLTP) system from a recovery log that contains change data for all transactions performed on the on-line transaction processing (OLTP) system to a staging system; and

at the staging system, performing the steps of:

copying the recovery log from the on-line transaction processing (OLTP) system;

storing the recovery log in a first database object having at least one control column;

grouping a plurality of change tables in a second database object of the staging system into at least two groups of change tables;

obtaining change data from the recovery stored in the first object based in-part on a column in the recovery log that holds data representing when a transaction has been committed;and

inserting the change data into one of the at least two groups of change tables in the second database object, in a single transaction, each change table in the one of the at least two groups of change tables having a column corresponding to the column in the recovery log, said change data representing modifications that has been performed to a plurality of source tables of the on-line transaction processing (OLTP) system and that correspond to the change tables in the second database object;and

renaming a column heading for a source column of the source object and providing the renamed column heading for the source column as a column heading in a change column of the database object.

8. (Currently Amended) A method of change data capture, comprising the steps of:

shipping change data for at least one transaction that has been performed on an on-line transaction processing (OLTP) system from a recovery log that contains change data for all transactions performed the on-line transaction processing (OLTP) system to a staging system; and

at the staging system, performing the steps of:

registering the recovery log with a log viewer;

generating a SQL statement to extract the change data from the recovery log;

and

executing the SQL statement, thereby copying the recovery log from the on-line transaction processing (OLTP) system;

storing the recovery log in a first database object having at least one control column;

grouping a plurality of change tables in a second database object of the second system into at least two groups of change tables;

obtaining change data from the recovery log stored in the first database object based in-part on a column in the recovery log that holds data representing when a transaction has been committed; and

inserting the change data into one of the at least two groups of change tables in a second database object, in a single transaction, each change table in the plurality of change tables having a column correspond in to the column in the recovery log, said change data represent in modifications that has been performed to a plurality of source tables of the on-line transaction processing (OLTP) system and that correspond to the change tables in the second database object; and

renaming a column heading for a source column of the source object and providing the renamed column heading for the source column as a column heading in a change column of the database object.

10. (Original) A method according to claim 8, wherein the on-line transaction processing (OLTP) system and the staging system are provided by different database vendors employing a different, incompatible internal implementation.

Reason for Allowance

3. The prior art made of record does not teach or fairly suggest the combination of elements, as recited in independent claims 1, 6, 7 and 8.

More specifically, the prior art of records does not specifically suggest the combination of "grouping a plurality of change tables in a second database object of the

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second system into at least two groups of change tables; inserting the at least some change data into one of the at least two groups of change tables in a single transaction, where each change table in the one of the at least two groups of change tables includes a column corresponding to the column in the recovery log; and renaming a column heading for a source column of the source object and providing the renamed column heading for the source column as a column heading in a change column of the database object" in combination with all the other limitations in the independent claim 1, 6, 7 and 8.

These features together with other limitations of the independent claim are novel and non-obvious over the prior art of record. The dependent claims 4-5, and 10 being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to USMAAN SAEED whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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